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APPLICATION NO.	FI	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/662,480	C	09/16/2003	Wataru Taki	1248-0668P	9630	
2292	7590	01/19/2006		EXAM	EXAMINER	
BIRCH STE	WART 1	KOLASCH & BI	LE, LA	LE, LANA N		
	RCH, VA	A 22040-0747	ART UNIT	PAPER NUMBER		
				2605		

DATE MAILED: 01/19/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)			
		10/662,480	TAKI, WATARU			
Office Action Summary		Examiner	Art Unit			
		Lana N. Le	2685			
	The MAILING DATE of this communication app					
Period for	Reply					
WHICH - Extens after Si - If NO p - Failure Any rep	RTENED STATUTORY PERIOD FOR REPLY IEVER IS LONGER, FROM THE MAILING DATE on softime may be available under the provisions of 37 CFR 1.13 X (6) MONTHS from the mailing date of this communication. eriod for reply is specified above, the maximum statutory period we to reply within the set or extended period for reply will, by statute, ply received by the Office later than three months after the mailing patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONEI	N. sely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status						
1)⊠ F	Responsive to communication(s) filed on 16 Se	eptember 2003.				
2a)□ 1	This action is FINAL . 2b) This action is non-final.					
3)□ 8	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
C	losed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	33 O.G. 213.			
Dispositio	n of Claims					
5)	Claim(s) 1-32 is/are pending in the application. a) Of the above claim(s) is/are withdray claim(s) is/are allowed. Claim(s) is/are rejected. Claim(s) is/are objected to. Claim(s) 1-32 are subject to restriction and/or expressions.	vn from consideration.				
Applicatio	n Papers					
10) T	the specification is objected to by the Examine the drawing(s) filed on is/are: a) acception acception and request that any objection to the deplacement drawing sheet(s) including the correction of the oath or declaration is objected to by the Ex	epted or b) objected to by the Eddrawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).			
Priority un	der 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some col None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s			(DTO 440)			
	of References Cited (PTO-892) of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary Paper No(s)/Mail Da				
3) 🔲 Informa	ition Disclosure Statement(s) (PTO-1449 or PTO/SB/08) No(s)/Mail Date		atent Application (PTO-152)			

Application/Control Number: 10/662,480

Art Unit: 2685

Election/Restrictions

Page 2

1. Restriction to one of the following inventions is required under 35 U.S.C. 121:

- Claims 1-7, 13, and 16, drawn to a variable filter for removing a harmonic wave of a first stage local oscillation signal, classified in class 455, subclass 296.
- II. Claims 8, 14, and 17, drawn to a variable filter for blocking interference between a first harmonic wave between the first stage local oscillation signal and the second stage local oscillation signal, classified in class 455, subclass 317.
- III. Claims 9-12, 15 and 18, drawn to a plural stage frequency conversion with a variable filter blocking interference between a harmonic wave of the local oscillation signal and a harmonic wave of a remaining local oscillation circuit, classified in class 455, subclass 315.
- IV. Claims 19-27, 29, and 31 drawn to a variable frequency filter for generating signals of different frequencies disposed between the local oscillator and the mixer, classified in class 455, subclass 307.
- V. Claims 28, 30, and 32 drawn to a variable frequency filter for blocking interference between harmonic waves of different stages, classified in class 455, subclass 314.
- 2. The inventions are distinct, each from the other because of the following reasons:

Inventions I and II are related as subcombinations disclosed as usable together in a single combination. The subcombinations are distinct from each other if they are shown to be separately usable. In the instant case, invention II has separate utility such as blocking interference between a first harmonic wave between the first stage local oscillation signal and the second stage local oscillation signal. See MPEP § 806.05(d).

Inventions I or II and III are related as subcombinations disclosed as usable together in a single combination. The subcombinations are distinct from each other if they are shown to be separately usable. In the instant case, invention III has separate utility such as blocking interference between a harmonic wave of the local oscillation signal and a harmonic wave of a remaining local oscillation circuit of a plural stage frequency conversion. See MPEP § 806.05(d).

Inventions I or II or III and IV are related as subcombinations disclosed as usable together in a single combination. The subcombinations are distinct from each other if they are shown to be separately usable. In the instant case, invention IV has separate utility such as generating signals of different frequencies. See MPEP § 806.05(d).

Inventions I, or II, or III or IV and V are related as subcombinations disclosed as usable together in a single combination. The subcombinations are distinct from each other if they are shown to be separately usable. In the instant case, invention V has separate utility such as blocking interference between harmonic waves of different stages. See MPEP § 806.05(d).

Application/Control Number: 10/662,480

Art Unit: 2685

3. Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, restriction for examination purposes as indicated is proper.

Page 4

- 4. Because these inventions are distinct for the reasons given above and the search required for Group I is not required for Group II, restriction for examination purposes as indicated is proper, the search required for Group II is not required for Group IV, and the search required for Group IV is not required for Group V, restriction for examination purposes as indicated is proper.
- 5. A telephone call was made to Derrell Birch on 12/20/05 to request an oral election to the above restriction requirement, but did not result in an election being made.

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Lana N. Le whose telephone number is (571) 272-7891. The examiner can normally be reached on M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edward F. Urban can be reached on (571) 272-7899. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/662,480

Art Unit: 2685

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Page 5

Lana Le

December 20, 2005